DOCUMENT-IDENTIFIER: US 20020028379 A1

TITLE: Electrode for nonaqueous electrolyte battery

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[0030] As the carbon-based negative electrode to be used in a lithium ion

battery there may be mainly used graphite having a high degree of

crystallization and carbon having a <u>low degree of</u> crystallization. The

particulate negative <u>active</u> material made of carbon has more pores than the

particulate negative <u>active</u> material made of graphite. Accordingly, the

conventional battery comprising an organic electrolyte solution contains a

large amount of an organic electrolyte solution in the particulate negative

active material and thus leaves something to be desired in safety. The

application of the present invention to a lithium ion battery comprising  $\boldsymbol{a}$ 

carbon-based negative electrode, if an <u>active</u> material having a filler held in

pores is used, makes it possible to drastically reduce the amount of the

electrolyte solution in the particulate  $\underline{\text{active}}$  material and hence drastically

improve the safety and charged storage properties of the battery. Accordingly,

the present invention is extremely effective for a lithium ion battery

comprising a carbon-based negative electrode.

[0056] As the carbon-based negative electrode to be used in a lithium ion

battery there may be mainly used graphite having a high degree of

crystallization and carbon having a <u>low degree of</u> crystallization. The

particulate negative active material made of carbon has

01/19/2003, EAST Version: 1.03.0002